ADCOM®

GTP-740

Digital Processing
Tuner / Preamplifier

OWNER'S MANUAL

This page should be picked up from any Adcom manual second page (inside front cover)

SAFETY NOTIFICATION PAGE

This equipment generates and uses radio frequency energy and if not installed and used properly (that is, in strict accordance with the manufacturer's instructions), may cause interference to radio and television reception. It has been type tested and found to comply with the specifications Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference in a residential installation.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures.

- reorient the receiving antenna
- relocate the processor with respect to the receiver
- move the processor away from the receiver
- plug the processor into a different outlet so that the processor and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to identify and Resolve Radio-TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, DC, 20402, Stock No. 004-000-00345-4.

Caution -- Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Caution -- To prevent electrical shock, do not use the polarized plug with an extension cord or receptacle, or other outlet, unless the blades can be fully inserted to prevent blade exposure.

Attention-- Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvente étre insérées à fond sans laisser aucune partie a découvert.

Explanation of Graphic Symbols

This **"lightning flash with arrowhead"** symbol is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The **"exclamation point"** symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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A NOTE FROM ADCOM

Thank you and congratulations on your decision to purchase the ADCOM GTP-740 Dolby Digital Tuner/Preamplifier. The GTP-740 will be the centerpiece of a truly cutting edge Home Theater system. To deliver the highest possible performance, ADCOM designers and engineers utilized the most advanced digital signal processing "engines" available, the Motorola 56000 series. The GTP-740 uses both the 56007 and 56009 processors for full 24 bit Dolby Digital decoding and digital bass management. In addition, we chose high precision six channel 20 bit Digital-to-Analog converters for the finest sound.

ADCOM PROTECTION PLAN (USA ONLY)

ADCOM offers the enclosed valuable Limited Warranty. Please read the details on the Warranty Card carefully to understand the extent of the protection offered by the Warranty, its reasonable limitations, and what you should do in order to obtain its benefits. Be sure to verify that the serial number printed on the rear panel matches the serial number on the outer carton. If any number is altered or missing, you should notify us immediately in order to ensure that you have received a genuine ADCOM product which has not been opened, mishandled, or tampered with in any way.

CONCEALED SHIPPING DAMAGE

Before your new GTP-740 left our factory, it was carefully inspected for physical imperfections and tested for all mechanical and electrical parameters as a routine part of ADCOM's systematic quality control program. This should ensure a product flawless in both appearance and performance. After you have unpacked the GTP-740, inspect it for physical damage. Save the shipping carton and all packing material as they are intended to reduce the possibility of transportation damage should your component ever need to be shipped again.

In the unlikely event that damage has occurred, notify your dealer immediately and request the name of the freight carrier so a written claim to cover shipping damages can be filed. THE RIGHT TO A CLAIM AGAINST A PUBLIC CARRIER CAN BE FORFEITED IF THE CARRIER IS NOT NOTIFIED PROMPTLY IN WRITING AND IF THE SHIPPING CARTON AND PACKING MATERIALS ARE NOT AVAILABLE FOR INSPECTION BY THE CARRIER. SAVE ALL PACKING MATERIALS UNTIL THE CLAIM HAS BEEN SETTLED.

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1.0 PRODUCT FEATURES

1.1 Front Panel Controls

The GTP-740's front panel is a study in simplicity as all controls are logically grouped for intuitive operation. Look at the following diagram and read the short explanations of each feature. When you finish, you will be well on your way to enjoying the GTP-740's convenience and sound quality.
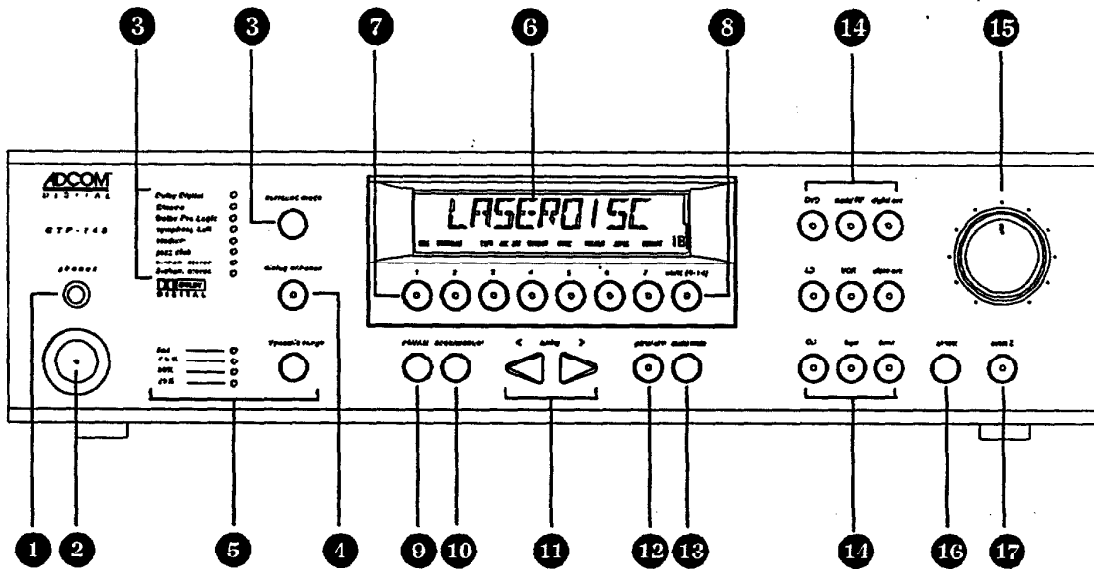
1	Headphone jack
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8	Shift (8-14) button
9	FM/AM button
10	Seek/Manual button
11	Tuning Down/Up buttons
12	Panel Dim button
13	Audio Mute button
14	Input Selector buttons
15	Master Volume control
16	IR (infrared) sensor
17	Room 2 button

1   **Headphone jack:** This accepts the stereo 1/4" phone plug connector used by almost all high quality headphones. When you use the headphone jack, the GTP-740's rear panel main line level *Preamp* outputs are muted. *Room 2* outputs are unaffected.

2   **Power Button and LED:** Use this button to turn your GTP-740 on and off. When you first push the Power Button to the ON (depressed) position, the center LED will glow yellow until all circuitry stabilizes. When your GTP-740 is ready to use, the LED will turn red.

           NOTE: The front panel Power Button must be engaged to use the remote control. If the front panel Power Button is not depressed, the remote control will not have any effect. When the front panel Power Button is engaged, the remote controller's "Power" button will cycle your GTP-740 between *standby* and *operation* modes. When in *standby* mode (indicated by the yellow LED), you need to press the remote control's "Power" button to activate your GTP-740's circuitry. (The LED will turn red when you do this.)

3   **Surround Mode button and LED indicators:** Pushing the button sequentially steps your GTP-740 through all the available operating modes linked to the selected input.

           For example, if you have chosen the DVD input (a digital input), the Surround Mode button will step through *Dolby Digital, Dolby Digital/Cinema,* and *Dolby Digital/2-chan. stereo.* The LED immediately to the right of the selected Operating Mode will indicate the current choice. The Operating Mode button will automatically bypass choices not applicable to the DVD input.

           In a similar manner, the Surround Mode button will step through *Dolby Pro Logic/Cinema/Dolby Pro Logic, symphony hall, stadium, jazz club, 5-chan. stereo,* and *2-chan. stereo* sequentially when you've selected the CD input. Since no CDs can carry a Dolby Digital (AC-3) signal, that choice is not available.

4   **Dialog Enhance button:** A shelving filter with a corner frequency of 7 kHz that reduces the often excessive high frequencies on some movie soundtracks that make them fatiguing to listen to.

5   **Dynamic Range button and LED indicators:** This button, usable only with a Dolby Digital source, incrementally reduces the audio track's dynamic range in four steps (full, 75%, 50%, and 25%) to allow comfortable listening under a wide variety of conditions. The normal, or default, position is *full.*

           Although we usually prefer to reproduce a source's full dynamic range (the difference between very loud and very soft sounds), we occasionally need to reduce dynamics. For example, when playing a movie late at night, loud explosions might wake sleeping family members. Simply turning the volume control down would probably make a whisper in the next scene inaudible. The Dynamic Range button solves this dilemma by progressively lowering the volume of loud peaks while increasing the level of softer sounds. This allows you to hear every element of the soundtrack without disturbing those around you or forcing you to strain to hear delicate nuances.

6   **Display window:** This shows all the pertinent information you will need to effectively use the GTP-740 on a daily basis. We carefully designed this window to display only the data you need at the time you need it. The window's configuration will change as you ask the GTP-740 to do different things. The display normally shows the input you've selected. If you're currently listening to AM or FM radio, the display shows that signal's frequency. Additional Information appears as needed and we'll note these appearances in subsequent sections of this manual.

7   **Tuner preset buttons:** These buttons (and the *Shift* button: see # 8 immediately below) allow quick access to up to 14 preselected AM or FM broadcast frequencies.

8   **Shift (8-14) button:** This allows each of the 7 tuner preset buttons to do "double duty." When the LED in the center of the shift button is illuminated red, the 7 tuner preset buttons activate tuner presets 8-14. When the LED in the center of the shift button is not illuminated, the 7 tuner preset buttons activate tuner presets 1-7.

9   **FM/AM button:** As you might expect, this button selects AM or FM. In addition to the selected broadcast frequency, a small "AM" or "FM" indicator appears in the bottom of the Display Window to confirm your choice.

10   **Seek/Manual button:** This controls the tuner's scan function.

         In *Seek* mode (indicated by the word "seek" in the bottom center of the Display window), the tuner will automatically go to the next active broadcast frequency when you press either of the Tuning buttons (see #11 immediately below.)
In *Manual* mode, the tuner will jump to the next higher or next lower *adjacent* frequency when you press either Tuning button, *whether or not that frequency is active.* For example, if the GTP-740 indicates an FM frequency of 91.1 (MHz) and you press the Tuner Up button, the GTP-740 will display 91.3, the next available frequency. Similarly, if you're listening to an AM broadcast at 1630 (kHz) and press the Tuning Down button, you will see 1620.

         Note: These frequency intervals apply only to North America. Other countries may be different.

11   **Tuning Down/Up buttons:** These allow easy selection of all the stations your GTP-740 can receive. Remember that these Tuning buttons will scan to the next *active* or to the *adjacent* frequency depending on how you've set the Seek/Manual button described above.

12   **Panel Dim button:** This reduces Display window brightness for listening or viewing in a dark room. The button simply toggles between *full* and *reduced* illumination.

13   **Audio Mute button:** This button lowers levels at the main preamplifier outputs by 20 dB. Press it again to restore previous levels. Audio Mute does not affect "Room 2" outputs.

14   **Input Selector buttons and LED indicators:** These allow easy choice of any available input. When you select a particular input, the LED in the center of that button will light and the input name will appear in the Display window to confirm your choice. Choosing an input automatically selects the Surround mode last used with that input. You may change the Surround mode at any time by using the Surround Mode button (#3 above.)

15   **Master Volume control:** This rotary knob raises the volume to all active speakers simultaneously as you turn it clockwise and lowers volume when you turn it counter-clockwise.

16   **IR (infrared) sensor:** This small window receives invisible infrared commands from the remote controller. **Do not block this window with accessories, cables, CD jewelboxes, etc.,** or the remote controller will not work.

17   **Room 2 button:** Pressing this button will activate the Room 2 output circuitry, enabling any of six analog audio and video sources; LD, VCR, video aux, CD, tape, and tuner. Pressing the Room 2 button will cause the LED's on the available source buttons to illuminate. The source that is currently selected for room 2 will be flashing. Choose the source you want to send to Room 2 by pressing the desired source button, it will illuminate steadily and the others will go off.

1.2   Rear Panel Inputs & Outputs -- System Connections

Like the front panel, the GTP-740's rear panel is carefully arranged to make hookup, configuration, and use as simple as possible. However, the GTP-740's extraordinary capabilities take some study to use most effectively. We strongly suggest that you read this section of the manual very carefully before beginning to hook up your system. You will save yourself much time and effort if you carefully think out what you expect from your system: consider the components you will use, where they'll be placed, and how you will want them to work together.

A NOTE ON CABLES

Different connections require different **types** of cables. For example, normal analog audio interconnects are **not** ideal for either digital audio or video signal · transfer.

Coaxial digital audio cables (those with RCA connectors at each end) should have a characteristic impedance of **75 ohms**. Similarly, **video** cables, both composite and S-Video, should have a characteristic impedance of **75 ohms**.

One question you will need to answer right away is which video signal format—composite or S-Video—you will be using throughout the system. The GTP-740 will handle either equally well but will not convert from one to the other. In general, the composite format is more widely used, although S-Video offers significantly better resolution with more advanced sources, especially DVD. S-Video's advantages decline somewhat with long cable runs. You may want to confer with your ADCOM dealer before deciding on one or the other.

Composite or S-Video?

The GTP-740 is shipped from the factory preset for use with composite video sources and display devices. While set for composite video use, the GTP-740's on-screen menu is **not** available at either S-Video monitor output.

If you elect to use S-Video connections, you must set the GTP-740 for this format. You can do this by using the menu system (see Section 3 for details), or you can follow these three steps:
1) Turn the GTP-740 off via the front panel power switch. (Do NOT use the remote controller's "power" button.) (When the unit is fully off, the LED in the center of the power switch will NOT light.)
2) Hold the surround mode button down
3) While continuing to hold the surround mode button down, press the front panel power switch again to activate the GTP-740.

This will switch the GTP-740 from standard (composite) to S-Video mode. For verification, hook your display device to either S-Video "monitor out" (make sure you've chosen the S-Video input) and press the "menu" button on the GTP-740's remote controller. If the SETUP menu screen appears, the GTP-740 is set for S-Video operation.

If the SETUP screen does not appear, recheck all connections. This will probably resolve the problem. However, remember that your dealer may have tested your GTP-740 and already switched it from composite to S-Video mode.

If this is the case, or *if you simply want to reset the GTP-740 for use with composite video components*, follow the three steps immediately above to toggle back to the composite video mode. Make sure your monitor is connected to a composite "monitor out" and that the monitor is set for the correct composite input. Press the remote controller's "menu" button again. You should see the SETUP screen displayed on the monitor.

The diagrams and notes in this section will probably answer most of your questions about interfacing the GTP-740 with other components in your system. You will find more detailed information on initial setup and configuration in following sections of the manual.

18   Antenna connections
19   ∴ Digital audio/standard (composite) video inputs
        DVD
        Dig aux
        Dig RF
20   Digital RF Demodulator bypass switch
21   12 volt trigger output
22   Analog audio/standard
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        LD (laserdisc) inputs
        VCR inputs and outputs
        Video aux in
        Room 2 outputs
        Ball System inputs and outputs
        Tape inputs and outputs
        Standard (composite) video monitor outputs
        CD inputs

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        Dig RF input
        LD Input
        VCR input
        VCR output
        Video aux input
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        Infrared repeater outputs
        IR mini jack (infrared sensor) input
        Remote sensor extension outputs
26   Preamplifier outputs
27   AC fuse holder
28   AC power cord
29   AC convenience outlets
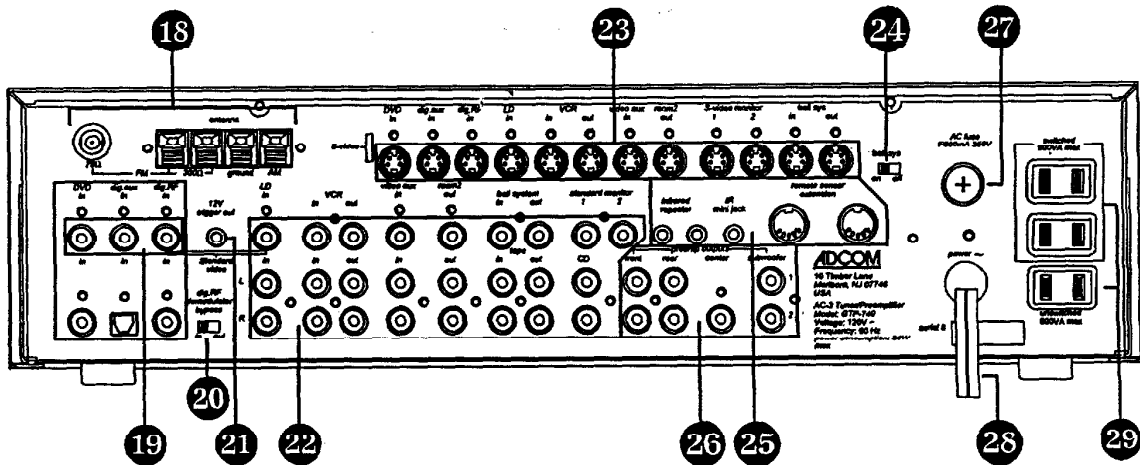
Note that the GTP-740's RCA-style jacks have color-coded centers to make connections easier. Use this key to help route cables properly:

YELLOW centers	=	**VIDEO** signals (composite)
BLACK centers	=	**DIGITAL AUDIO** signals
		and
		CENTER CHANNEL and **SUBWOOFER**
		PREAMP outputs
WHITE centers	=	**LEFT CHANNEL ANALOG AUDIO** signals
RED centers	=	**RIGHT CHANNEL ANALOG AUDIO** signals

18   **Antenna connections**: You need to connect different antennas for FM and AM reception.
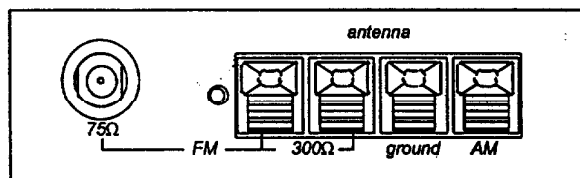
For FM, use either the 75 ohm "F" connector or the 300 ohm "push terminals" depending on what type of antenna you've chosen. If you're getting FM from a cable system feed, you will most likely use the "F" connector. The "T" shaped antenna supplied with the GTP-740 uses the push terminals marked "300 ohms." "T" antennas are directional. They should be placed as high as possible with the arms fully extended. If possible, the arms should be oriented so that they are at right angles to the transmitter.
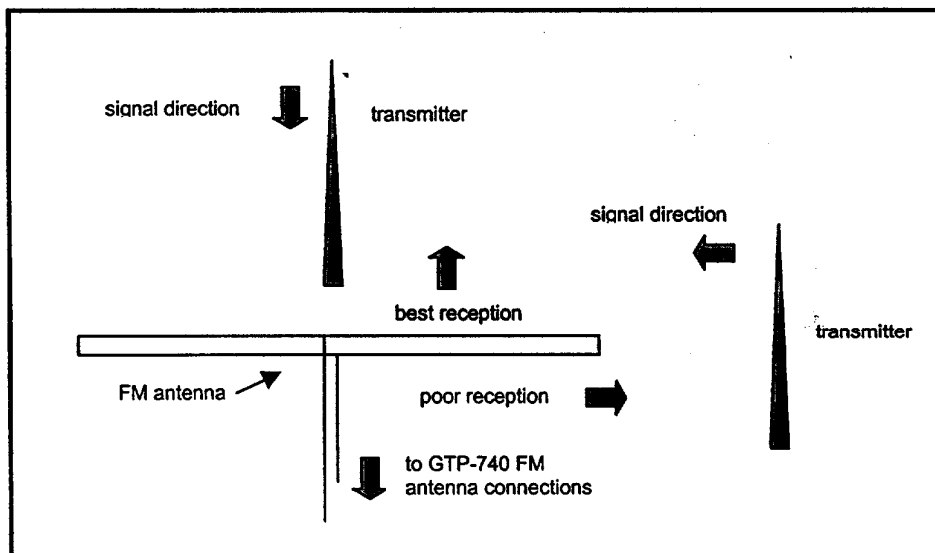
The supplied AM loop antenna connects to the push terminals marked "ground" and "AM," respectively. You may need to adjust the position of the antenna for best reception. If you use an outdoor AM antenna, follow the manufacturer's instructions.

19   Digital audio/standard (composite) video inputs

> Remember that you must choose either standard (composite) or S-Video
> connections before hooking up source components. This section of the manual
> assumes you have chosen composite connections. S-Video connections will be
> handled in a subsequent section.

```
     DVD       dig.aux     dig.RF                        LD
      in         in          in                          in
                                        12V
                                      trigger out

     (◎)        (◎)        (◎)        (◎)        (◎)

      in         in          in       Standard     in
                                       video
                                                L  (◎)
      o          o           o

     (◎)        (▽)        (◎)       [□]    R     (◎)
                                    in   out
```
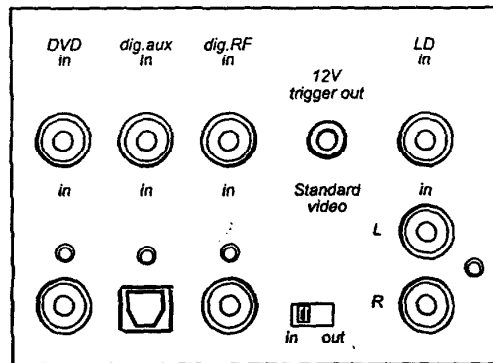
DVD in: Connect the DVD player's composite video output to the yellow-center RCA jack immediately under the "DVD in" label.

Connect the DVD player's RCA-style digital output jack to the GTP-740's black-center RCA jack located under the "DVD in" label.

Note: If your DVD player has only a TOSlink (optical) digital output, you may need to connect it to "dig. aux in." If this is the case, remember to connect the player's video output (composite or S-Video) to the appropriate "dig. aux in" jack.

Dig Aux In: This input is recommended for an audio/video source (DSS receiver, etc.) with a TOSlink (optical) digital output.

Remember that the composite video connection will go to the yellow-center RCA jack immediately under the "dig. aux in" label.

Connect the source's TOSlink (optical) digital output to the GTP-740's TOSlink socket located under the "dig. aux in" label.

Dig RF in: We recommend this input for laserdisc players with a digital RF output. It is the only input on the GTP-740 equipped with the RF demodulator needed to process a laserdisc's Dolby Digital encoded soundtrack.

Connections follow the same pattern detailed in "DVD in" and "Dig. aux in" above. Connect the laserdisc player's composite video output to the yellow-center RCA jack immediately under the "dig. RF" label. Then connect the player's coaxial digital output to the black-center RCA jack under the "dig. RF in" label.

20   Digital RF Demodulator bypass switch
(see illustration on preceding page)
This switch adds flexibility to the GTP-740. If you play laserdiscs with Dolby Digital-encoded
soundtracks, put this switch in the **IN** position. This places the demodulator circuit in the signal
path and allows proper Dolby Digital decoding.

If you do not have a laserdisc player with a digital RF output, place the switch in the **OUT** position.
You can then use this input in exactly the same way as you would use the DVD input.

21   12 volt trigger output
(see illustration on preceding page)

To facilitate remote turn-on and turn-off of other components (power amplifiers, for example), this
2.5 mm mini-jack provides a constant signal (12 volts DC) whenever the GTP-740 is fully
powered. When the GTP-740 is turned off (via the front panel switch) or placed in standby mode
(via the "power" button on the remote controller), the jack has no output.

22   Analog Audio and Standard (Composite) Video inputs and outputs
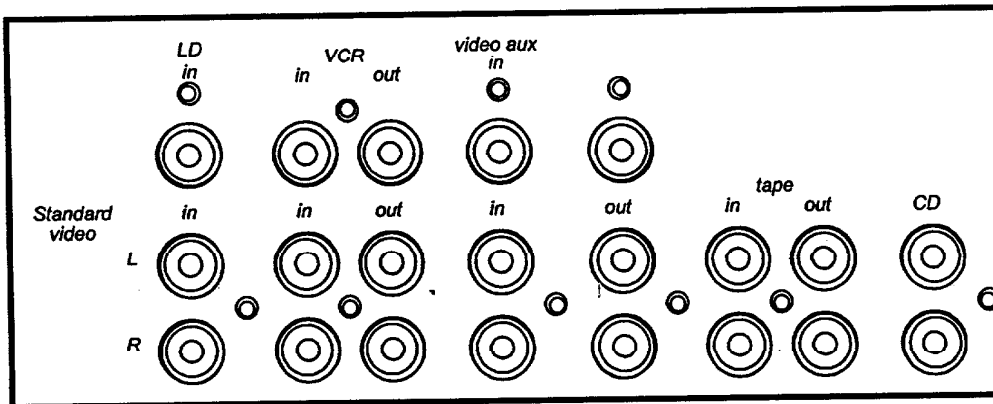
LD (laserdisc) inputs:

> Use these inputs as you have already used the digital source inputs (see #19 above.)
> After selecting and connecting the laserdisc player's composite video output to the GTP-
> 740's yellow-center RCA jack immediately under the "LD in" label, connect the player's
> left channel analog audio output to the **white** RCA jack under the "LD in" label. Then
> connect the player's right channel analog audio output to the "LD in" **red** RCA jack.

VCR inputs and outputs:
(see illustration on preceding page)

Because you will use your VCR to record as well as play, take care to follow these instructions carefully.

1) Connect the VCR's composite video output to the GTP-740's yellow-center RCA jack immediately under the "VCR in" label.
2) Connect the VCR's composite video input to the GTP-740's yellow-center RCA jack immediately under the "VCR out" label.
3) Connect the VCR's left channel analog audio output to the GTP-740's **white** "VCR in" jack.
4) Connect the VCR's right channel analog audio output to the **red** "VCR in" jack.
5) Connect the VCR's left channel analog audio input to the GTP-740's **white** "VCR out" jack.
6) Connect the VCR's right channel analog audio input to the **red** "VCR out" jack.

Note: You may want to use so-called "A/V combination" patch cords to make this step less confusing. Sold under a variety of names, these combination cables usually include a video conductor and two audio conductors in one cable assembly. If you elect to use them, make sure that they support the video format (composite or S-Video) you've chosen for your system.

Video aux input:
(see illustration on preceding page)

This input is electrically identical to the LD input described above and will accommodate a wide variety of audio/video sources.

After selecting and connecting the source's composite or S-Video output to the GTP-740's corresponding "video aux" video input, connect the source's left channel analog audio output to the **white** RCA jack under the "video aux in" label. Then connect the source's right channel analog audio output to the **red** RCA jack under the "video aux in" label.

Room 2 outputs:

These outputs supply video and audio signals for distribution to a secondary area or room in your home. Room 2 features are covered in a separate section of this manual.

Connect the composite Room 2 video output to the video display device (TV or video projector) in the remote area. Make sure the cable(s) you use for this connection are high quality and well shielded as long cable runs act as antennas for unwanted interference signals. (Depending on the distance between the GTP-740 and the display device and, to a lesser extent, the video format you've chosen, you may need
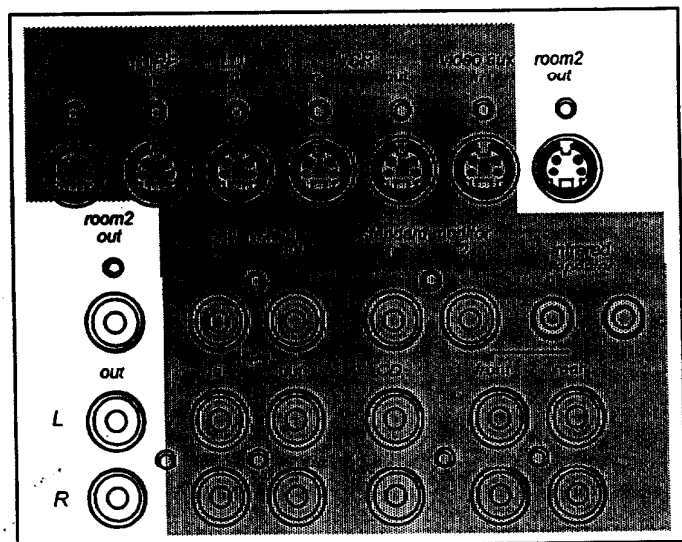
a video distribution amplifier to make sure the signal arrives at the display device properly. Consult your ADCOM dealer for additional information if needed.)

Connect the **white** "Room 2 out" jack to the left channel input of the amplifier used to power speakers in the remote area. Then connect the **red** "Room 2 out" jack to the amplifier's right channel input.

Ball System inputs and outputs:

These connections allow easy interface with ADCOM's unique "Ball System," the BOS-500 home theater controller. Note that the BOS-500 processes video signals only so you don't need to concern yourself with any audio connections between it and the GTP-740. (For additional information, consult the BOS-500 manual.)
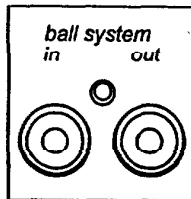
Connect the BOS-500's composite video output to the GTP-740's yellow-center "Ball System in" jack. Then connect the BOS-500's composite input to the GTP-740's yellow-center "Ball System out" jack.

If you are using the GTP-740 with the Ball System, make sure you've set the Ball System switch correctly.

Tape inputs and outputs:
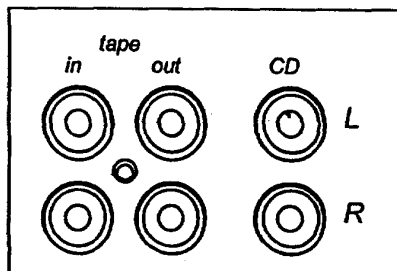
These connections are designed for a cassette deck or any other audio recording device with line-level analog inputs and outputs.

Follow these instructions:

1) Connect the recorder's left channel analog audio output to the GTP-740's **white** "tape in" jack.
2) Connect the recorder's right channel analog audio output to the **red** "tape in" jack.
3) Connect the recorder's left channel analog audio input to the GTP-740's **white** "tape out" jack.
4) Connect the recorder's right channel analog audio input to the **red** "tape out" jack.

Standard (composite) video monitor outputs:
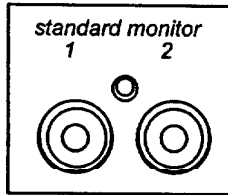
Connect the main monitor or display device to the yellow-center RCA jack under the "standard monitor 1" label. You may use the "standard monitor 2" jack for another monitor if desired. Properly connected, either monitor will then display an image from a video source or on-screen menu information when appropriate.

CD inputs:
(see illustration on preceding page)

These line-level analog inputs allow easy connection of a CD player (or other two channel analog audio source.)

Follow these instructions:

1) Connect the CD player's left channel analog audio output to the GTP-740's **white** "CD in" jack.
2) Connect the CD player's right channel analog audio output to the **red** "CD in" jack.

23   S-Video inputs and outputs

Note: This section assumes that you've elected to use S-Video sources and display devices exclusively and that you've set the GTP-740 for S-Video signal transfer by following the steps described in the boxed note entitled **Composite or S-Video?** on page 9.
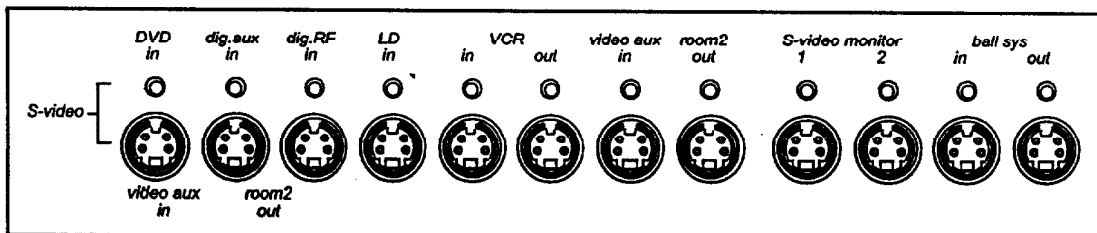
When hooking up S-Video capable audio/video components, follow the steps outlined in Sections 19 and 22 above. However, ignore the instructions for composite video connections and substitute the following:

DVD in: Connect the DVD player's S-Video output to the mini-DIN connector under the S-Video "DVD in" label.

Dig. aux in: Connect the source's S-Video output to the mini-DIN connector under the S-Video "dig. aux in" label.

Dig. RF in: Connect the source's S-Video output to the mini-DIN connector under the S-Video "dig. RF in" label.

LD in: Connect the LD player's S-Video output to the mini-DIN connector under the S-Video "LD in" label.

VCR in: Connect the VCR's S-Video output to the mini-DIN connector under the S-Video "VCR in" label.

VCR out: Connect the VCR's S-Video input to the mini-DIN connector under the S-Video "VCR out" label.

Video aux in: Connect the source's S-Video output to the mini-DIN connector under the S-Video "video aux in" label.

Room 2 output: Connect the video display device to the S-Video mini-DIN output under the "room 2 out" label.

S-Video monitor outputs: Connect the main monitor or display device to the mini-DIN jack under the "S-Video monitor 1" label. You may use the "S-Video monitor 2" jack for another monitor if desired. Properly connected, either monitor will then display an image from a video source or on-screen menu information when appropriate.

Ball System input and output: Connect the BOS-500's S-Video output to the mini-DIN jack immediately under the "ball sys in" label. Then connect the BOS-500's S-Video input to the mini-DIN jack under the "ball sys out" label.

24   Ball System On/Off switch

This switch controls a "video loop" that enables the GTP-740 to function seamlessly with ADCOM's Ball System controller.

For conventional high performance home theater systems, make sure the "ball sys on/off" switch is in the off position. When using the Ball System controller, place this switch in the on position.

25   Remote control connections
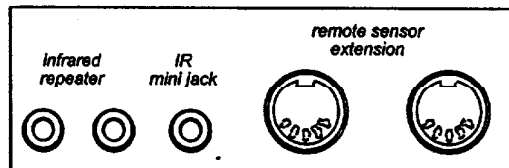
Infrared repeater: These mini-jack outputs transfer command codes received from either the **IR mini-jack** or **remote sensor extension** inputs to an IR repeater located close to other system components. IR signals received at the GTP-740's front panel IR receptor are *NOT* available at the infrared repeater outputs.

IR mini-jack: This input receives IR command codes from remote sensors.

Remote sensor extension inputs: These inputs receive signals from ADCOM's XR500II and SPM500II remote control sensors.

26   Preamplifier outputs
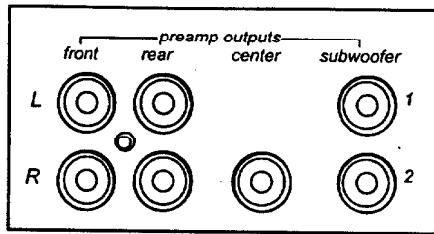
These are the GTP-740'a main outputs. Connect each to the proper amplifier or amplifier channel as follows:

1) Connect the white-center RCA output marked "front L(eft)" to the amplifier channel designated for the left front loudspeaker.
2) Connect the red-center RCA output marked "front R(ight)" to the amplifier input designated for the right front loudspeaker.
3) Connect the white-center RCA output marked "rear L(eft)" to the amplifier input designated for the left rear loudspeaker.
4) Connect the red-center RCA output marked "rear R(ight)" to the amplifier input designated for the right rear loudspeaker.
5) Connect the black-center RCA output marked "center" to the amplifier input designated for the center channel loudspeaker.
6) Connect the black-center RCA output marked "subwoofer" to the amplifier input (in most cases, the line-level input of a powered subwoofer) designated for the subwoofer.

Note: There are two subwoofer outputs (1 & 2.) They are in parallel (i.e., each produces an identical signal) and may be used interchangeably. We've included these outputs to make it easier to add a second subwoofer, if desired.

27   AC fuse holder

This holder provides easy access to the AC line fuse if that fuse needs replacement. To gain access to the fuse, insert a Phillips head screwdriver and turn counterclockwise. After replacing the fuse, reseat the holder by turning clockwise until the holder is firmly seated.

When replacing the fuse, **ALWAYS** use one of equal value (for domestic models use an F500mA, 250V fuse available at any electronic parts store.) **NEVER** use a fuse of higher value. If the fuse fails again, consult your ADCOM dealer or call the ADCOM Service Department directly.

28   AC power cord (115VAC models)

Make sure to seat this cord firmly in an unswitched wall socket to provide uninterrupted power to the GTP-740. When removing the cord from an AC socket, **NEVER** pull on the cord itself. Instead, grasp the plug firmly and remove it from the socket. You may need to "rock" the plug lightly for easier removal.

28a   AC power cord receptacle (export models)
This IEC-standard socket accepts a wide variety of AC power cords.

29   AC convenience outlets (115VAC models)

These outlets are for low-current source components only. They are not designed for power amplifiers.

The single *unswitched* outlet is live whenever the GTP-740 is plugged into a live AC source. The two *switched* outlets are live only when the GTP-740 is fully operational (i.e., whenever the front power button's LED is red.) They are not live when the GTP-740 is in *standby* mode (when the LED is yellow.)

Observe the wattage limitations printed above the two switched and one unswitched outlets. Note that the 500VA figure (equivalent to 500 watts) above the two switched outlets is a maximum figure for both outlets combined. Do not exceed this limit.

> **We strongly recommend the use of our switched power line conditioner, the ADCOM ACE-515, for systems with substantial amplifiers and many source components. In addition to relieving the GTP-740 from handling large current surges, the ACE-515 protects your entire system by filtering and conditioning the AC current. In addition to numerous heavy duty AC outlets, the ACE-515 includes sequential power-up and power-down modes to minimize "thumps" whenever you turn your system on or off.**

1.3   The Remote Control

30   Source selectors
      main
      DVD
      VCR
      tuner
      v. aux (Video auxiliary)
      CD
      d. RF (digital RF) -- digital LD
      d. aux (digital auxiliary)
31   Power
32   Input selectors
33   Volume Up/Down
34   Tuning Up/Down
35   Guide
36   Menu
37   < (left arrow)
38   Up arrow/Pause
39   > (right arrow)
40   Down arrow/Stop
41   Select/Play
42   Direct access keypad
      ("1" through "10" and "+10")
43   Shift
44   FM/AM
45   Stereo
46   Srnd (surround)
47   Enter
48   d. (dynamic) range
49   dialog
50   Level trim
      Rear Up/Down
      Center Up/Down
      Sub Up/Down
51   Bal. chk (balance check)
52   Dim
53   M1, M2, M3, M4 (Macro keys)
54   Room 2
55   Backlight
56   Mute
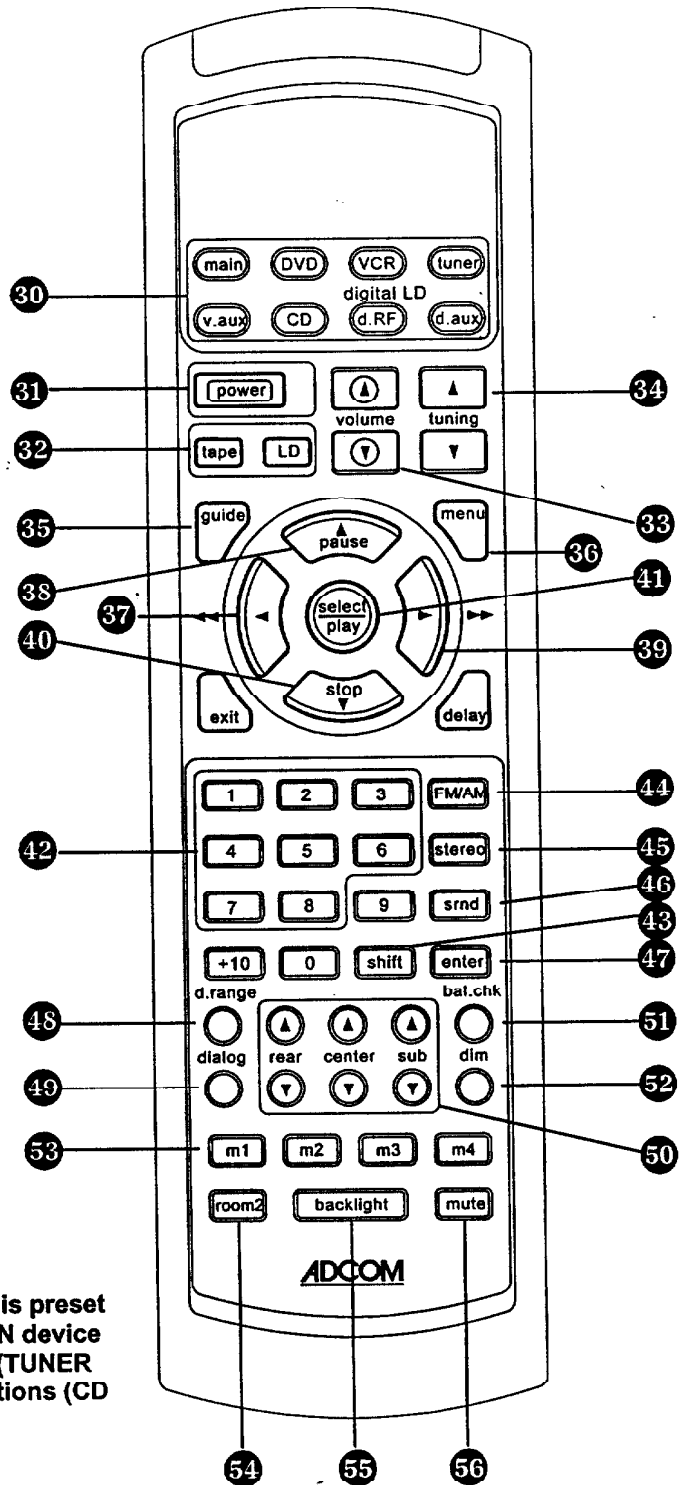
The ADCOM universal remote controller is preset to operate most GTP-740 functions (MAIN device mode), GTP-740 AM/FM tuner functions (TUNER device mode) and GCD-700/750 CD functions (CD device mode.)

20

30   **Source selectors** (main, DVD, VCR, tuner, v. aux, CD, d. RF, d. aux.)
These buttons serve two functions.

- First, they switch inputs on the GTP-740 so you can hear the source you've just selected.

- Second (and even more important), *they can change the functions of all the other buttons on the remote controller.* In other words, if you first push the **DVD** device selector, the remote's **select/play** button generates a command code for your DVD player. If you then press the **d. aux** device selector, the same **select/play** button would send a different command code that might, for example, start your mini-disc player. (Of course, this all depends on how you programmed the remote in the first place. Don't worry—we'll cover that shortly.)

31   **Power**

- In **main** mode (after you've pressed the **main** device selector), this is preprogrammed to turn the GTP-740 on and off.
- In **tuner** mode, it is also preprogrammed to turn the GTP-740 on and off.
- The button is programmable for use with other sources.

32   **Input selectors** (tape, LD)

- In **main** mode, these are similar to the source selectors described above but they switch only GTP-740 inputs. They DO NOT automatically change the functions of other remote buttons.
- These buttons are programmable for use with other sources.

33   **Volume Up/Down**

- In **main** mode, these buttons are preprogrammed to raise and lower the GTP-740's master volume level accordingly.
- They are programmable for use with other sources.

34   **Tuning Up/Down**

- In **tuner** mode, these buttons are preprogrammed to scan up or down the GTP-704's AM or FM band.
- They are programmable for use with other sources.

35   **Guide**

- This is intended for easy call-up of cable or satellite program guides.
- Button is programmable for use with any source.

36   **Menu**

- In **main** mode, this is preprogrammed to call up the GTP-740's SETUP menu system. (A subsequent push will exit the menu, regardless of which menu screen you are in.)
- It is programmable for use with any source.

37   **< (left arrow)**

- In **main** mode, this is preprogrammed to step through the various choices you might wish to select while a menu item is highlighted.
- In **CD** mode, it is preprogrammed for audible reverse scan with an ADCOM CD player
- The button is programmable for use with any other source.

38   Up arrow/Pause

- In **main** mode, this is preprogrammed to scroll up to the next choice on a menu screen.
- In **CD** mode, it is preprogrammed to pause an ADCOM CD player.
- In **tuner** mode, it is preprogrammed to start scanning preset frequencies higher than the current station.
- The button is programmable for use with any other source.

39   > (right arrow)

- In **main** mode, this is preprogrammed to step through the various choices you might wish to select while a menu item is highlighted.
- In **CD** mode, it is preprogrammed for audible forward scan with an ADCOM CD player
- The button is programmable for use with any other source.

40   Down arrow/Stop

- In **main** mode, this is preprogrammed to scroll down to the next choice on a menu screen.
- In **CD** mode, it is preprogrammed to stop an ADCOM CD player.
- In **tuner** mode, it is preprogrammed to start scanning preset frequencies lower than the current station.
- The button is programmable for use with any other source.

41   Select/Play

- In **main** mode, this is preprogrammed to enter a selection chosen via the menu system.
- In **CD** mode, it is preprogrammed to start an ADCOM CD player.
- The button is programmable for use with any other source.

42   Direct access keypad (buttons "1" through "10," and "+10")

- In **tuner** mode, buttons "1" through "7" are preprogrammed to access preset stations.
- In **CD** mode, buttons are preprogrammed as track access commands for the ADCOM CD player.
- The buttons are programmable for use with any other source.

43   Shift

- In **tuner** mode, button is preprogrammed to access presets 8 through 14 ("Shift" + "2" = preset number 9, etc.)
- In **CD** mode, button is preprogrammed as "call" command for ADCOM CD player.
- The button is programmable for use with any other source.

44   FM/AM

- In **tuner** mode, button is preprogrammed to switch between FM and AM bands.
- In **CD** mode, button is preprogrammed as "repeat" command for ADCOM CD player.
- The button is programmable for use with any other source.

45   Stereo

- In **tuner** mode, button will change playback from Stereo to Mono.
- In **CD** mode, button is preprogrammed as "program/memory" command for ADCOM CD player.
- The button is programmable for use with any other source.

46 Srnd (surround)

- In **main** mode, button is preprogrammed to step through GTP-740's various operation modes.
- In **CD** mode, button is preprogrammed to initiate random play with ADCOM CD player.
- The button is programmable for use with any other source.

47 Enter

- In **tuner** mode, button is preprogrammed to select "manual" or "seek" tuning modes.
- In **CD** mode, button is preprogrammed as "time" command for ADCOM CD player.
- The button is programmable for use with any other source.

48 d. (dynamic) range

- In **main** mode, button is preprogrammed to adjust dynamic range of Dolby Digital encoded sources.
- In **CD** mode, button is preprogrammed to access disc 1 with ADCOM CD player.
- The button is programmable for use with any other source.

49 dialog

- In **main** mode, button is preprogrammed to call up or cancel "dialog enhance" equalization.
- In **CD** mode, button is preprogrammed to begin and end "A-B" repeat with ADCOM CD player.
- The button is programmable for use with any other source.

50 Level trim (Rear Up/Down, Center Up/Down, Sub Up/Down)

Rear Up

- In **main** mode, button is preprogrammed to increase both rear speaker levels simultaneously.
- In **CD** mode, button is preprogrammed to access disc 2 with ADCOM disc player.
- The button is programmable for use with any other source.

Rear Down

- In **main** mode, button is preprogrammed to decrease both rear speaker levels simultaneously.
- In **CD** mode, button is preprogrammed to clear "repeat" command with ADCOM disc player.
- The button is programmable for use with any other source.

Center Up

- In **main** mode, button is preprogrammed to increase center channel speaker level.
- In **CD** mode, button is preprogrammed to access disc 3 with ADCOM disc player.
- The button is programmable for use with any other source.

Center Down

- In **main** mode, button is preprogrammed to decrease center channel speaker level.
- The button is programmable for use with any other source.

Sub Up

- In **main** mode, button is preprogrammed to increase subwoofer level.
- In **CD** mode, button is preprogrammed to access disc 4 with ADCOM disc player.
- The button is programmable for use with any other source.

.-Sub Down

- In **main** mode, button is preprogrammed to decrease subwoofer level.
- The button is programmable for use with any other source.

51   **Bal. chk** (balance check)

- In **main** mode, button is preprogrammed to initiate balance check procedure with test tone and BALANCE CHECK menu screens.
- In **CD** mode, button is preprogrammed to access disc 5/Memory Clear with ADCOM disc player.
- The button is programmable for use with any other source.

52   **Dim**

- In **main** and **tuner** modes, button is preprogrammed to dim GTP-740's information display.
- The button is programmable for use with any other source.

53   **M1, M2, M3, M4** (Macro keys)

M1

- In **main** mode, button is preprogrammed to select Tape 2 input (not applicable to GTP-740.)
- The button is programmable for use with any other source.

M2

- In **main** mode, button is preprogrammed to select Video 4 input (not applicable to GTP-740.)
- The button is programmable for use with any other source.

M3 and M4

- These buttons are programmable for use with any source.

54   **Room 2**

- In **main** mode, button is preprogrammed to select a Room 2 source.
- The button is programmable for use with any other source.

55   **Backlight**

- No programming capabilities. Button backlights all keys for eight (8) seconds when pressed.

56   **Mute**

- In **main, tuner,** and **CD** modes, button is preprogrammed to mute outputs of device.
- The button is programmable for use with any other source.

Remote Function Table

This table supplements the information you've just read. Use it to quickly review button functions. The controller's capabilities are extensive and you may be somewhat intimidating at first. However, you will soon find that its logical button arrangement and programming capabilities will greatly increase your enjoyment as you discover the ease with which you can operate your entire system from just one remote!

Look down the left-hand column until you see the button you want to learn about. Then look under MAIN to see if it is preprogrammed for a GTP-740 function, under CD to see what CD commands are preprogrammed, and under TUNER to see all preprogrammed tuning functions.

BUTTON	FUNCTION			
	Main	**CD**	**Tuner**	**All Others**
MAIN	Selects MAIN			
DVD	Selects DVD	None	None	None
VCR	Selects VCR	None	None	None
TUNER	Selects TUNER in	None	None	None
V. AUX	Selects VIDEO AUX	None	None	None
CD	Selects CD	None	None	None
D. RF	Selects DIGITAL RF	None	None	None
D. AUX	Selects DIGITAL AUX	None	None	None
POWER	Power On/Off & Macro	*Programmable*	Power On/Off	*Programmable*
TUNING +	*Not programmable*	Disc Skip +	Tuning +	*Programmable*
TUNING -	*Not programmable*	Disc Skip -	Tuning -	*Programmable*
VOLUME +	Master volume up	Volume up	Master volume up	*Programmable*
VOLUME -	Master volume down	Volume -	Master volume down	*Programmable*
TAPE	Selects TAPE	*Programmable*	*Programmable*	*Programmable*
LD	Selects LD	*Programmable*	*Programmable*	*Programmable*
GUIDE	*Not programmable*	Track reverse	*Programmable*	*Programmable*
MENU	On-screen display	Track forward	*Programmable*	*Programmable*
EXIT	*Not programmable*	Polarity	*Programmable*	*Programmable*
DELAY	Sets rear chan. delay	Open/close drawer	*Programmable*	*Programmable*
UP/PAUSE	OSD scroll up	Pause	Preset Scan +	*Programmable*
DOWN/STOP	OSD scroll down	Stop	Preset Scan -	*Programmable*
<	OSD left select	Search reverse	*Programmable*	*Programmable*
>	OSD right select	Search forward	*Programmable*	*Programmable*
SELECT/ PLAY	OSD "Enter" command	Play	*Programmable*	*Programmable*
1	*Not programmable*	Track 1	Preset 1	*Programmable*
2	*Not programmable*	Track 2	Preset 2	*Programmable*
3	*Not programmable*	Track 3	Preset 3	*Programmable*
4	*Not programmable*	Track 4	Preset 4	*Programmable*
5	*Not programmable*	Track 5	Preset 5	*Programmable*
6	*Not programmable*	Track 6	Preset 6	*Programmable*
7	*Not programmable*	Track 7	Preset 7	*Programmable*
8	*Not programmable*	Track 8	*Programmable*	*Programmable*
9	*Not programmable*	Track 9	*Programmable*	*Programmable*
0	*Not programmable*	Track 10	*Programmable*	*Programmable*

+ 10	Not programmable	+ 10	Programmable	Programmable
SHIFT	Not programmable	Call	Presets 8 - 14	Programmable
FM/AM	Not programmable	Repeat	FM or AM select	Programmable
STEREO	Stereo mode select	Program/Mem.	Stereo/Mono	Programmable
SRND	Surround mode select	Random play	Programmable	Programmable
ENTER	Not programmable	Time display	Seek/Manual	Programmable
D. RANGE	Dynamic range adjust	Disc 1	Programmable	Programmable
REAR +	Rear level up	Disc 2	Programmable	Programmable
CENTER +	Center level up	Disc 3	Programmable	Programmable
SUB +	Subwoofer level up	Disc 4	Programmable	Programmable
BAL. CHK	Balance check	Disc 5/ Memory clear	Programmable	Programmable
DIALOG	Dialog enhance on/off	A-B repeat	Programmable	Programmable
REAR -	Rear level down	Clear repeat	Programmable	Programmable
CENTER -	Center level down	Programmable	Programmable	Programmable
SUB -	Subwoofer level down	Programmable	Programmable	Programmable
DIM	Dim display	Programmable	Dim Display	Programmable
M1	For Macro use	For Macro use	For Macro use	For Macro use
M2	For Macro use	For Macro use	For Macro use	For Macro use
M3	For Macro use	For Macro use	For Macro use	For Macro use
M4	For Macro use	For Macro use	For Macro use	For Macro use
ROOM 2	Room 2 source select	Programmable	Programmable	Programmable
MUTE	Mute volume	Mute volume	Mute volume	Programmable

PROGRAMMING YOUR ADCOM REMOTE CONTROLLER

Introduction

The ADCOM universal remote controller operates eight different audio/video components. As you've already seen, it's preprogrammed to control ADCOM's GTP-740 Preamp/Tuner and the GCD-700 CD player. In addition, it has five "component memory banks" available so you can program the remote to learn commands for your DVD player, satellite box, laserdisc player, VCR, etc. This lets you use one remote controller for your entire system.

Using Preprogrammed Commands

Using the remote controller's preprogrammed commands is simple. For most GTP-740 functions (volume up/down, changing surround modes, etc.), follow these easy steps.

1. Press the **main** source selector button. This tells the remote that you want to use GTP-740 preprogrammed commands. The **main** button will flash red to tell you it understands.
2. Press the appropriate function button (**volume up, volume down,** etc..) If you've selected a button that actually triggers a GTP-740 command, the **main** button will again flash red to confirm your choice. If the **main** button does not flash, you've selected a function button that isn't preprogrammed. (Review the table above to see which buttons are preprogrammed.)

For tuner functions (changing stations, etc.):

1. Press the **tuner** source selector button. It will flash red.
2. Press the **tuning up** (or **tuning down**) function button to change stations. The **tuner** source selector will flash red to confirm that the function button you've selected actually triggers a command. (Again, use the table to see which buttons are preprogrammed.)

Press the **CD** source selector first to access preprogrammed commands for ADCOM CD players.

> *Note: You can program new commands over the preprogrammed commands in **tuner** and **CD** if you wish.* However, you cannot program *any* buttons, even those unprogrammed with GTP-740 command codes, while you're in **main** mode. This safety feature assures you that you will always be able to fully enjoy the GTP-740's capabilities.

Programming Your Own Commands

You can supplement preprogrammed commands with commands to operate other components. Before you begin to follow these steps, note the **status LED** located at the top left corner just above the remote's button panel: It will flash red, orange, or green to signal particular functions as you enter new commands into your ADCOM remote.

Begin by deciding which source component's commands you will be transferring to the ADCOM remote. Then press the appropriate source selector button. For example, if you're teaching your ADCOM remote commands for your DVD player, press the **DVD** source selector first. You can "teach" your remote new commands for any function button (*except* **backlight**) after you've selected DVD, VCR, TUNER, V.AUX, CD, D.RF or D.AUX.

1. Place the source component's remote "head to head" with the ADCOM remote. They should be in line with each other about 2 to 3 inches apart.

2. Press the ADCOM remote's appropriate **source selector** and **select/play** buttons simultaneously. Hold both buttons until the **status LED** turns orange and the **source selector** button glows red. Both indicators should remain lit.

3. Decide which function button on the ADCOM remote you want to learn a new command. Press it. The orange **status LED** will begin to flash and the **source selector** LED will go out.

4. Find the corresponding button on the source component's remote. Press and hold it until the **status LED** on the ADCOM remote flashes green once and remains green until the button on the source remote is released. Once the button on the source remote is released, the status LED will start flashing orange again.

5. Verify that the ADCOM remote has learned the new command by pressing and holding the same button on the source remote. The ADCOM remote's **status LED** should flash green twice and then go back to steady orange. This indicates successful programming. Release the button on the source remote.

> *Repeat Steps 2 through 5 for any other commands you want to teach your ADCOM remote for that source component.*

Save the commands you've just programmed into the ADCOM remote by pressing and holding the appropriate **source selector** and **select/play** buttons simultaneously. Hold until the **status LED** and **source selector** LED flash twice and then go out. Repeat these steps for any other source commands you wish to program.

Deleting (clearing) **Individual Programmed Commands**

1. Press the ADCOM remote's **source selector** and **select/play** buttons simultaneously and hold until the orange **status LED** and the **source selector** button glow steadily.

2. Press the function button you wish to clear. The status LED will flash continuously.

3. Press the **backlight** button. The status LED will then flash *green* twice and then revert to steady orange. The **source selector** button will continue to glow.

   Repeat steps 2 and 3 for any other command you wish to delete for the same source component.

4. Exit "delete mode" by pressing and holding the **source selector** and **select/play** buttons simultaneously. The orange **status LED** and the **source selector** button will turn off.

Deleting all the Programmed Commands for *one* Source Component

1. Press the ADCOM remote's **source selector** and **select/play** buttons simultaneously and hold until the orange Status LED and the **source selector** button turn on and remain lit.

2. Press and hold down the **backlight** button. The red Status LED and the Device button will flash five times, the Status LED will then flash green twice and turn to a constant orange, indicating that all the learned information for the device mode selected has been erased.

3. To exit this feature, press and hold the ADCOM remote's **source selector** and **select/play** buttons simultaneously. The orange status LED and the **source selector** button will flash twice and then turn off.

Deleting all the Programmed Commands for *every* Source Component

> *Note: This procedure erases every programmed command accessed under the DVD, VCR, TUNER, V.AUX, CD, D.RF and D.AUX input selectors. Make sure you really want to do this before following the step below.*

1. Press and hold the **CD input selector** and the **light** button simultaneously. The red status LED will flash twelve times. The status LED will then flash green once, followed by a single orange pulse. All LEDs will then turn off, indicating that every learned command in the ADCOM remote has been erased.

Macro Commands

Introduction

"Macro" commands are simply a series of individual commands initiated by pushing just one button. The ADCOM remote can learn up to 10 individual commands and store them as a single macro.

There are five "macro initiator" buttons on the ADCOM remote: **power, m1, m2, m3,** and **m4.** Each "macro initiator" can store and transmit either of two complete macros, depending on which **source selector** is active when you push it.

For macro programming purposes, think of the source selectors as being in two groups: **main, DVD, VCR,** and **tuner** in Group 1; **v. aux, CD, d. RF,** and **d. aux** in Group 2. When you program a "Group 1" macro, you will start by pushing the **main** source selector. After you've completed and memorized that macro command series, you can initiate it whenever you're in **main, DVD, VCR,** or **tuner** modes. Similarly, you will program "Group 2" macros by pushing **v. aux** first and can use them whenever the **v. aux, CD, d. RF,** or **d. aux inputs** are active.

For example, if the **m1** button is programmed in Group 1 mode to turn on the TV, turn on the audio receiver, turn on the VCR, and then turn on the satellite receiver, it will perform the same series of commands whenever the **m1** button is pressed *IF* **main, DVD, VCR,** or **tuner** sources are active at the time you select that macro. If you've programmed a Group 2 macro, it will send out an identical command sequence whenever **v. aux, CD, d. RF,** or **d. aux inputs** are active.

Programming Macro Initiator Buttons:

1. Press either the Group 1 or Group 2 **source selector** button (**main** or **v. aux** respectively) and the **mute** button simultaneously. Hold both buttons until the red **status LED** and the **input selector** button remain lighted.

2. Press the macro initiator button (**power, m1, m2, m3** or **m4**) you wish to program.

3. Select and press up to 10 buttons you wish to store in the macro. Both **source selector** and **function** buttons count as individual commands. Remember that each macro can hold only up to 10 individual commands.

4. Press the **tuning up** button to save the macro. The red **status LED** and **input selector** button will blink twice to confirm programming and then turn off.

   Please note:
   - To add a power (on/off) command to the macro, use the **mute** button in place of the **power** button.
   - The tuning up/down buttons cannot be used in a macro sequence.

*Programming **main** volume "punch through"*

This particular macro command is very useful. It allows you to adjust the **main** volume (**volume up, volume down,** and **mute**) regardless of which source selection is active. In practical terms, this means that you will be able to adjust the GTP-740's volume without first pressing **main**—even if you're in VCR mode at the time! Remember that you will need to program the remote individually for each source you think you will use this "punch through" feature with.

1. Press the appropriate source selector and mute buttons simultaneously and hold until both the red **status LED** and **source selector** button remain lighted.

2. Press the **volume up** button.

3. Press the **main** source selector. The red **status LED** and the **source selector** button you pressed in Step 1 will blink twice to confirm successful "punch through" programming and then turn off.

Example: If you wish to have the GTP-740's master volume controls operate in the VCR mode, you would press the **VCR** source selector button in Step 1 and the **main** source selector button in Step 3. If you want the same convenience while in DVD mode, select **DVD** in Step 1, etc.

*Reversing **main** volume "punch through"*

You can revert to normal volume control operation by erasing the "punch through" command. Do this by following these steps:

1. Press the appropriate source selector and mute buttons simultaneously and hold until both the red **status LED** and **source selector** button remain lighted.

2. Press the **volume up** button.

3. Press the same source selector as you chose in Step 1. The red **status LED** and the **source selector** button will blink twice to confirm that you've erased the "punch through" command.

2.0   INSTALLING/CONNECTING THE GTP-740

2.1   Placement

Your system components need a stable, vibration-free supporting surface. Your ADCOM dealer will be pleased to show you many different types of audio/video equipment racks and cabinets. Keep the GTP-740 (and other audio/video components) away from moisture and out of direct sunlight.

Bear in mind that the GTP-740's rear panel is the central connecting point for almost every component in your audio/video system. Leave sufficient room behind the rear panel to accommodate cables, antenna leads, power cords, etc. We recommend a minimum of 5" of free space behind the GTP-740 for maximum flexibility.

The GTP-740's control and processing circuitry benefits from several advanced microprocessors. These devices generate signals that occasionally interfere with other components. To avoid this, place the GTP-740 on a separate shelf if at all possible with space above and below the unit for better isolation. In addition to providing optimum heat dissipation, this also allows easy access to the rear panel to check connections or reconfigure your system if you desire.

2.2   Connections

Section 1.2 above has already provided the information you need to successfully connect all the audio/video components you will need for a sophisticated home theater system. Your ADCOM dealer will be pleased to assist you should you required detailed answers to more advanced system configuration questions.

3.0   INITIAL SETUP

What this section is all about . . .

After connecting all the components in your home theater system to the GTP-740, you will need to spend some time configuring it to best serve your needs. Although this might seem to be a daunting task at first, the GTP-740's on-screen menu system and the following step-by-step instructions will easily guide you through the process.

Remember, all you're really doing is telling the GTP-740 what's connected to it, what it's connected to, and some things about your speakers and room. The GTP-740's advanced microprocessors will digest this information and adjust its internal circuitry accordingly.

3.1   What You Will Need

1) Decide which video format (composite or S-Video) you will use. After you've made that choice, follow the instructions in the box titled **Composite or S-Video** in Section 1.2 to make sure your GTP-740 is set properly.

2) Connect your monitor to the appropriate "monitor output" on the GTP-740. Turn your monitor on, verify that it is receiving a signal by pressing the remote controller's "menu" button. Once you see the on-screen menu's main screen, you're ready.

3) Make sure you have a sound level meter handy if you have access or wish to purchase one.

> Although you *can* calibrate the GTP-740 surprisingly well using your ears alone, we strongly suggest a sound level meter for greater accuracy. The Radio Shack meter (catalog # 33-2050) is both inexpensive and reasonably precise. Other sound level meters offering improved accuracy and flexibility are available. In general, we find meters with digital readouts less satisfactory for calibration work as the continuous scale of an analog readout gives a more useful picture of sound level variations.

3.2   SETUP Screen (Main menu screen)

In composite video mode, all menu screens will show white copy against a blue background. The highlighted choice will show black letters against a light gray rectangle.

If you've selected S-Video mode, all screens will show white copy against a dark gray background. Highlighted choices show as black copy against a light gray rectangle.

After you've connected your monitor to the GTP-740 and turned both units on, press the remote controller's **menu** button once. The following screen will appear:

```
              SETUP

    1  INPUT SETTINGS
    2  CHANNEL DELAYS
    3  SPEAKER SIZE
    4  CHANNEL BALANCE
    5  EXIT
```

This screen is the first step in configuring your GTP-740 to best serve your needs. It provides quick access to all other menu choices.

Input settings should be highlighted. If it is not, use the remote controller's **Up/Down** arrow buttons to move the cursor to INPUT SETTINGS and press the remote's **Select** button.

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3.3 INPUT SETTINGS Screen

This screen shows:

```
┌─────────────────────────────────┐
│        INPUT SETTINGS           │
│                                 │
│   INPUT:                        │
│   VIDEO:                        │
│   MODE:                         │
│   DIALOG ENHANCE:               │
│   DYNAMIC RANGE:                │
│   LEVELS MENU                   │
│                                 │
│   UNDO CHANGES                  │
│   DONE                          │
│                                 │
└─────────────────────────────────┘
```
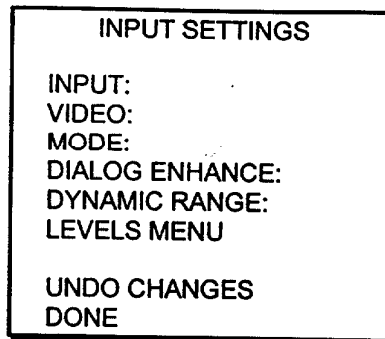
Note that the first five menu items (INPUT through DYNAMIC RANGE) contain additional information. MODE, DIALOG ENHANCE, AND DYNAMIC RANGE are keyed to the input identified at the top of the screen and are the *default* settings for that input. You can change these settings within limits for later recall but remember that the GTP-740's "Auto Select" feature may override your choices under certain conditions.

- INPUT identifies the input in use when you called up the menu system.

- VIDEO tells you which video mode (composite or S-Video) you've already selected.

- MODE indicates the operating mode (stereo, Pro Logic, etc.) currently associated with the chosen input.

- DIALOG ENHANCE selects a proprietary midrange equalization curve designed to reduce relative high frequency content of very "bright" sources.

- DYNAMIC RANGE indicates the level of compression currently selected. (Note: This applies only to digital inputs receiving a Dolby Digital-encoded signal.) Choices are Full, 75%, 50%, and 25%.

The remaining menu items are:

- LEVELS MENU: This works in conjunction with the CHANNEL BALANCE adjustments (# 4 on the main SETUP screen) and the circuitry initiated by pressing the "bal. check" button on the remote controller. Our suggestion is to avoid the LEVELS MENU screen entirely for the present other than to make sure that all the indicators are centered. If you need to center the indicators, use the **Up/Down** arrow buttons to scroll to the appropriate indicator, and then center it with the < or > buttons. Once all indicators are in the middle of their respective scales, scroll down to DONE and press **Select** to exit to the SETUP screen.

- UNDO CHANGES discards any choices you may have just made, maintains previously chosen settings, and returns you to the main SETUP screen.

- DONE preserves the changes you've just selected for future use and returns you to the main SETUP screen.

Highlight INPUT if necessary (the **Up/Down** arrow buttons) and press either the < (left arrow) or > (right arrow) buttons to scroll to the input you want to modify. (Wait about 2-3 seconds after pressing < or >. This gives the GTP-740's microprocessor array time to reset and check all system parameters.)

When you've selected the input, the screen displays the currently selected defaults associated with that input. For example, you might see:

```
┌─────────────────────────────┐
│      INPUT SETTINGS         │
│                             │
│   INPUT: TUNER              │
│   VIDEO: COMPOSITE          │
│   MODE: 2 CHANNEL           │
│   DIALOG ENHANCE: OFF       │
│   DYNAMIC RANGE: N/A        │
│   LEVELS MENU               │
│                             │
│   UNDO CHANGES              │
│   DONE                      │
└─────────────────────────────┘
```

This tells you that selecting the TUNER input (from the front panel or remote) will automatically "call up" 2 channel operating mode with dialog enhancement Off. Note that dynamic range adjustment is not possible.

You may change any parameter by highlighting it with the **Up/Down** buttons and using < or > to scroll through the available choices. For example, you can elect one of the following modes as the default for the TUNER input:

- 2 channel (stereo)
- Cinema EQ (with Dolby Pro Logic)
- Dolby Pro Logic (no Cinema EQ)
- Hall surround
- Stadium surround
- Jazz surround
- 5 channel surround (enhanced stereo)

These choices are not consistent from input to input. Dolby Digital, for instance, is not available when you've selected TUNER, because TUNER is an analog input. In this way, the GTP-740 protects you from making inappropriate choices

> *Note: If you change video formats, the menu screen will disappear. Do not panic. Just press either the < or > button to restore the screen.*

Once you've adjusted the default parameters for all inputs to your satisfaction, highlight DONE and press the **Select** button. This memorizes your choices and takes you back to the main SETUP screen.

3.4 CHANNEL DELAY Screen

> The term "delay" is often misunderstood. Conventional surround sound systems routinely delay the sound going to the rear channels for a few thousandths of a second (a few milliseconds - abbreviated "mS") to enhance the apparent directionality of various effects. In addition, the GTP-740 allows you to calibrate center channel delay.

Based on a psychoacoustic principle called the "Haas effect," properly implemented rear channel delay reduces our "acoustic confusion" about the origin of sounds. Rear channel delay is particularly important with "matrix" surround decoding (Dolby Pro Logic for example) because even the best matrix circuits "leak" front channel information to the surround channels.

Center-channel delay compensates for conditions where the two main speakers and the center channel speaker are at slightly different distances from the listening/viewing position.

Although discrete delivery systems like Dolby Digital are not as dependent on precisely calibrated rear channel delay, the GTP-740 follows proper protocol and shifts rear channel delay settings automatically as you select Pro Logic or Dolby Digital processing. This will greatly increase your enjoyment of the enormous variety of surround-encoded software available today.

From the SETUP screen, highlight CHANNEL DELAYS and press **Enter**. You will see the following screen:

```
        CHANNEL DELAYS

   CENTER      0 mS

   REAR        0 mS

   UNDO CHANGES
   DONE
```

If "N/A" shows to the right of CENTER or REAR, change inputs to DVD (or another input where Dolby Digital is the default operating mode) by pressing the appropriate button on the GTP-740's front panel or remote controller.

Highlight CENTER with the **Up/Down** buttons and then select the proper delay setting with the < or > buttons.

Setting Proper Center Channel Delay

For optimum performance, a single impulse from the front speakers should arrive at the prime listening position at the same instant. Of course, that requires that the front speakers are all placed at equal distances from the prime listening/viewing position (PLP.) This is rarely the case, since the center channel speaker is usually closer to the PLP than the main left and right speakers. This would mean that sound from the center speaker would arrive at the PLP before the impulse from the main left and right speakers and confuse the front soundfield.

To prevent this from happening, we can delay the center channel signal in the GTP-740 before it reaches the center channel output. Since sound travels roughly 1 foot every millisecond (or every *thousandth* of a second), we can easily calculate optimum delay by measuring the distance from the main speakers to the PLP and then comparing that to the distance between the center channel speaker and the PLP. The difference in these two measurements is the proper delay setting.

For example, if your main speakers are 15 feet from the PLP and the center channel speaker is 12 feet, the difference is 3 feet. The corresponding center channel delay is 3 milliseconds (15-12=3.)

The GTP-740 delays center channel output up to 5 milliseconds and thus compensates for center channel speakers that are up to 5 feet closer to the PLP than the main left and right speakers.

In rare system setups, the center channel speaker is actually farther away from the PLP than the main left and right speakers. In these cases, set the center channel delay to 0 mS.

Next, adjust rear channel delay time by highlighting REAR with the **Up/Down** buttons and using < and > to choose the appropriate setting.

Setting Rear Channel Delay

The principle here is the same. Measure the distance from the rear speakers to the PLP and compare it to the distance you've already measured from the main left and right speakers to the PLP. Note the difference and use that as your rear channel delay setting.

For example, if your rear speakers are 9 feet from the PLP, the correct delay setting would be 6 milliseconds (15-9=6.)

Again, if the rear speakers are farther away from the PLP than the main speakers, set delay to 0 mS.

When DELAY settings are completed to your satisfaction, highlight DONE and press **Select** to return to the SETUP screen.

3.5 SPEAKER SIZE Screen

In the SETUP screen, highlight SPEAKER SIZE and press **Enter**.

You will see:

```
┌─────────────────────────────────┐
│          SPEAKER SIZE           │
│                                 │
│       SELECT PRESET:  1         │
│                                 │
│       MAIN:  LARGE              │
│       CENTER:  ON               │
│       REARS: ON                 │
│       SUBWOOFER:  ON            │
│                                 │
│       UNDO CHANGES              │
│       DONE                      │
└─────────────────────────────────┘
```

SELECT PRESET should be highlighted. If not, use the **Up/Down** arrows. The < and > buttons will cycle through Preset 1, Preset 2, and Preset 3. For the moment, select "1."

┌──┐
│   **Why Different Speaker Size Presets?**   │
│   │
│ Most surround controllers allow only one speaker configuration. This is logical, │
│ since you will rarely switch speakers once your system is installed and calibrated. │
│ However, the GTP-740 provides three presets to allow you to custom-configure │
│ the same system to optimally reproduce both music and video soundtracks. │
│   │
│ For example, if you use your system primarily for music reproduction, you might │
│ configure Speaker Size Preset 1 for "Large" main speakers with the rear channels │
│ and subwoofer off. For video viewing, you will probably want rear speakers and │
│ the subwoofer on. Speaker Size Preset 2 gives you the ability to quickly choose │
│ this combination when appropriate. We've provided Speaker Size Preset 3 for │
│ your convenience. Use it as you will. │
└──┘

After selecting the proper Preset, scroll down to MAIN. Use the < and > buttons to select either LARGE or SMALL. Choose LARGE when your main speakers are full bandwidth designs with good bass capability. Choose SMALL when your main speakers are smaller "satellite" designs or lack deep bass output. (If you're not sure what to choose here, your ADCOM dealer will be happy to advise you.)

After you've configured your MAIN outputs, scroll to CENTER and choose ON or OFF. For most users, choose ON if your system has a center channel speaker. However, if you're configuring a Speaker Size Preset specifically for two-channel music reproduction, you may want to select OFF.

After you've configured your CENTER output, scroll to REAR and choose ON or OFF. For most users, choose ON if your system has REAR channel speakers. However, if you're configuring a Speaker Size Preset specifically for two-channel music reproduction, you may want to select OFF.

Scroll to SUBWOOFER and repeat the process described above: ON activates the GTP-740's Subwoofer output, OFF mutes it.

After completing all choices, scroll to DONE and press **Enter**. This will save the configuration and return you to the SETUP screen.

Remember that UNDO CHANGES allows you to exit the configuration process at any time *without* memorizing any changes you might have just made. Scroll to UNDO CHANGES and press **Select** to return to the SETUP screen.

Note: You may want to repeat these steps for Preset 2 and Preset 3. Just follow the steps above but make sure you've chosen the proper PRESET prior to choosing a different configuration. If you don't, the new choices will overwrite those you've previously made.

3.6   CHANNEL BALANCE Screen

Why Do I Need To Balance Channel Output?

Proper system calibration (i.e., adjusting the relative output of all speakers ·to compensate for system and placement variations) is an essential step if you wish to enjoy a movie soundtrack or other multi-channel sound source as the director, producer, or sound engineer intended.

Channel balancing (or "calibrating") a system simply means adjusting the GTP-740's main outputs to compensate for speaker level differences caused by varying amplifier sensitivities, speaker efficiencies, and speaker placement—all the possible variations *except* those inherent in the software you will be playing .

The GTP-740 gives you several ways to adjust channel balance.
• The first is with the LEVELS MENU adjustments accessed from the SETUP menu screen. As we've already pointed out, we suggest that you not use this initially. It adjusts levels of the main front (left and right) speakers simultaneously and of both rear speakers simultaneously. Although this has advantages in certain situations, it is *not* ideal here.
• The next is with the CHANNEL BALANCE screen. See below for details.
• Another is by using the remote controller's **bal. chk** button. *This is the preferred method for initial calibration.*
• The last is by using the **rear, center, and sub Up/Down** buttons on the remote. These are intended for "on the fly" corrections for some perceived shortcoming in the source you're currently enjoying.'

From the SETUP screen, select CHANNEL BALANCE with the **Up/Down** buttons and press **Enter.**

You will see:

```
              CHANNEL BALANCE

        LEFT      -           +
        RIGHT     -           +
        CENTER    -           +
        REAR L    -           +
        REAR R    -           +
        SUB       -           +

        UNDO CHANGES
        DONE
```
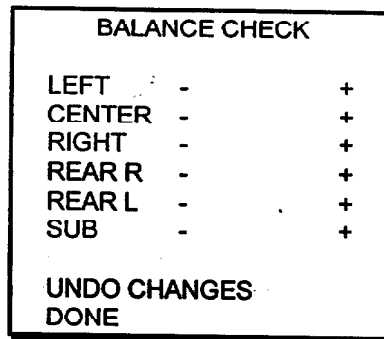
LEFT will be highlighted. The < and > arrow buttons will decrease and increase LEFT channel level respectively. When you've completed this adjustment, scroll to RIGHT and, once again, use the < and > arrow keys until the RIGHT level is satisfactory. Continue through CENTER, REAR L, REAR R, and SUB.

When you're satisfied with the relative levels, scroll to DONE and press **Select**. This will commit the changes to memory and exit to the SETUP screen.

NOTE: **Although this screen allows individual channel adjustments, it is not ideal for initial calibration.** If you're using the GTP-740 for the first time, we suggest you use the remote controller's **bal. chk** button to begin the initial calibration. The reason for this is that the **bal. chk** procedure turns on the GTP-740's internal test tone generator and automatically steps that test tone through all six outputs.

3.7   Using **bal. chk**

The remote controller's **bal. chk** button is the easiest way to calibrate the GTP-740. Once your system is connected and functioning, press the **bal. chk** button. You will see the following screen:

```
┌──────────────────────────────┐
│       BALANCE CHECK          │
│                              │
│   LEFT      -         +      │
│   CENTER    -         +      │
│   RIGHT     -         +      │
│   REAR R    -         +      │
│   REAR L    -      .  +      │
│   SUB       -         +      │
│                              │
│   UNDO CHANGES               │
│   DONE                       │
└──────────────────────────────┘
```

You will hear a "waterfall" test tone advancing from speaker to speaker. You will also see the highlight bar automatically advancing through LEFT, CENTER, RIGHT, etc., in synchronization with the test tone.

Before making any adjustments, place your sound level meter as closely as possible to ear height at your favorite listening/viewing position. (Most sound level meters have a threaded connection on the bottom for a camcorder or camera tripod that may help you do this.) The meter should be "free standing;" avoid putting it close to reflective surfaces (including your own body) as reflected sound waves will reduce reading accuracy.

> When using a sound level meter, set it to "Slow" response (to better average continuous readings), "C" weighing (the "C" scale is more accurate for the type of measurement you need to do), and adjust the "range" setting to 80 dB.

Adjust the GTP-740's master volume control until the sound level meter registers approximately 80 dB as the test tone cycles through the channels. (Don't be concerned about variations here—once you're done calibrating, they won't be there any longer!)

Wait until the test tone cycles to the LEFT speaker and verify that you've got an 80 dB reading. (If not, use the master volume control to increase and decrease the test tone volume as necessary.) When the test tone cycles to the CENTER speaker, use the remote controller's < and > arrow buttons to adjust center channel level until you get an 80 dB reading. (You will notice that the test tone will not cycle to the RIGHT speaker until you've completed adjusting the CENTER output.) Repeat this procedure for every channel.

Points to Remember:
• The test tone automatically cycles to the next speaker every three seconds UNLESS you use the < and > buttons to adjust levels. (You will also notice that pressing some other buttons on the remote controller will temporarily delay this advance.)
• You will probably need several passes until you've equalized levels. Don't be concerned about this—it's normal. Once you've brought each channel's level *close* to 80 dB, one or two more passes will even things out and ensure precise balancing.

When you've completed channel balancing, press the **bal. chk** button again. Both the test tone and the BALANCE CHECK screen will disappear and the levels you've just selected will be memorized. This completes the initial level calibration.

4.0 BASIC OPERATION

4.1 The Tuner

Selecting stations

As we have already explained in Section 1.1, using the tuning controls to receive your favorite FM and AM broadcasts is a simple process.

1) Select the **tuner** input via the front panel (# 14) or remote control (# 30) button. The information display will show the most recently received broadcast frequency.

2) If the band you want (AM or FM) is already displayed, proceed to step 3) below. If not, push the **FM/AM selector** (#9 on the front panel, #44 on the remote) to change to the appropriate band. .

3) Choose your preferred tuning method (seek or manual) by pressing the front panel **seek/manual** button (# 10).

While in "seek" mode, the **tuning buttons·**(front panel # 11, remote # 34) will take you to the next *active* frequency. In "manual" mode, the tuning buttons will step to the next *available* frequency even if it is unused.

4) Use the **tuning buttons** to select the station you wish to listen to.

Programming "preset" stations.

The GTP-740 can memorize up to 14 AM and 14 FM signals for instant recall. Place your favorite stations in memory by:

1) Select either FM or AM as described above. Note the stations you want to preset. Starting at the lowest end of the frequency range (88.1 for FM, 520 for AM), tune to the first station you want to program into memory.

2) Press the **preset 1** button (# 7 on the front panel, # 42 on the remote) and hold it for approximately three (3) seconds. (Remember to push the remote's **tuner** source selector before using the keypad.) When you see "Preset 1" appear in the information display and the LED in the **preset 1** button light, that frequency is memorized.

3) Tune to the next desired frequency and follow the same instructions but use "Preset 2" to commit this new broadcast frequency to memory.

4) Continue for all presets up to and including the seventh.

5) Setting presets 8 through 14 require the use of the shift button.

   - Select the desired frequency for preset # 8. Press **shift** and then hold **preset button 1** for three seconds. When you see "Preset 8" appear in the information display and the LED's in the front panel **preset 1** and **shift** buttons light, that frequency is memorized.

   - Select the frequency for preset # 9. Follow the instructions above but substitute **preset button 2** in place of preset button 1. (Remember that the shift button adds a "7" to the nominal preset button value. Thus, **shift + 2** actually means "Preset 9" and so on.)

   - Continue as above until all 14 presets are used or until you run out of "favorite" stations, whichever comes first.

6) Select the other broadcast band (AM or FM) and begin programming again. Follow the instructions above. When you're finished, you'll be able to listen to any of these favorite frequencies by pushing just one or two buttons.

Listening to "preset" stations

1) Select **tuner** and either FM or AM.

2) Press the appropriate preset button (or **shift** + the **preset button** for choices higher than "preset 7").

3) Enjoy.

4.2 Room 2 Operation

Introduction

The GTP-740's "Room 2" circuitry give you the ability to simultaneously enjoy two different audio/video sources in two different areas of your home. For instance, you can watch a DVD movie in the main family room while someone else enjoys a satellite broadcast or CD in the bedroom.

Full "Room 2" capability requires an infrared sensor and a reliable data link between that sensor and the GTP-740. Consult you ADCOM dealer for details and assistance if necessary.

Selecting a "Room 2" source

Note: Although you can select a "Room 2" source from the GTP-740's front panel, you probably won't want to do this very often. The preferred, and far more practical, method is via the remote control link between whatever area of your home you've designed "Room 2" and the GTP-740

1) Press the **room 2** button (# 17 on the front panel, #54 on the remote) once. The LED in the center of the **room 2** button will light to tell you that "room 2" capability is on.

2) Press the **room 2** button again. The LED's in the center of the six front panel analog **source selectors** will light to show you that you can route any of those sources to the GTP-740's "Room 2" outputs. If one of the six source LED's blinks, that source is already selected for room 2 distribution. If no LED blinks, no source is currently selected. *(Note: You cannot direct a digital source -- DVD, digital RF, or digital aux -- to the Room 2 outputs.)*

3) Choose the source you wish to direct to the room 2 outputs by pushing one of the lighted **source selectors**. The LED's in the other source selectors will go out and the name of the source you've just chosen for room 2 distribution will briefly appear in the information display window. After five (5) seconds, the display will change to show the room 1 (main) source but the room 2 LED will still glow, indicating that a room 2 source is now active.

4) You can verify the room 2 source selection any time "room 2" capability is active (i.e., any time the **room 2** LED is illuminated) by simply pressing the **room 2** button again. You'll see all six analog source selector LED's light. The active room 2 source LED will blink and the name of that source will show in the information display. You'll have ten (10) seconds to change the room 2 source by simply pressing any other illuminated source selector.

Setting "Room 2" playback volume

You can change "room 2" volume only by using the remote control. There is no way to adjust "room 2" playback level from the GTP-740's front panel alone.

Although you can use the remote to adjust "room 2" volume while still in the main listening/viewing area, that does not serve a useful purpose as you won't have an easy way to judge the remote location's volume.

1) Press the remote control's **main** source selector once. This makes sure the remote is ready to generate GTP-740 command codes.

2) Press the **room 2** button *twice* to access the room 2 mode.

3) Use the remote control's **volume up/down** buttons within ten (10) seconds of pressing **room 2**. The front panel display will show room 2 level changes as you make them and will then revert to normal display mode ten (10) seconds after the GTP-740 receives the last volume adjust command.

Remember that you can construct remote control "macros" to automatically put you in "room 2" command mode. You should always have a second remote controller in the "room 2" location and that controller can be easily configured with specific room 2 command streams (those beginning with a command for main source selection followed by two "room 2" pulses) for easy operation.

4.3 Operating Mode Selection

The GTP-740 features several operating modes — Dolby Digital, Dolby Pro Logic, 5 channel stereo, several "enhancement" modes, etc. — designed to present music and movie soundtracks as realistically as possible. In addition, some of these modes add the ability to "custom tailor" the GTP-740's spatial presentation to better suit individual tastes.

You'll need to understand these modes — Dolby Digital, Cinema, Dolby Pro Logic, Symphony Hall, Stadium, Jazz Club, 5 channel stereo, 2 channel stereo — to get the most out of your GTP-740.

However, selecting the proper mode can be difficult, particularly when increasingly popular digital formats like DVD present an often-bewildering array of soundtrack options. For this reason, the GTP-740 features automatic mode selection (or "Auto Select") to analyze digital input signals and process them properly. (Auto Select works *only* with digital input signals.)

When you are using other inputs, you will probably need to manually select the proper operating mode. However, the GTP-740 remembers the mode you've most recently used for a particular input ánd will automatically restore that mode when you use that input next, software permitting, of course.

You can change modes with the menu system or with the **surround mode** button (# 3 on the front panel or # 46 on the remote) when you wish to.

The GTP-740's operating modes are:

- **Dolby Digital:** This mode applies only when you've selected one the GTP-740's three digital-only sources: **DVD, digital RF,** or **digital aux.** Contrary to popular belief, Dolby Digital does *not always* imply a discrete 5.1 channel soundtrack. That's because a Dolby Digital-encoded source *may* have 6 separate channels of information . . . or 4, or 3, or 2, or only 1! This is up to the producers of the software you're playing. If allowed by the software, all six channels are active.

- **Cinema:** Not an actual mode itself, "cinema" is an equalization ("EQ") curve designed to reduce excessive high frequencies and the consequent harshness sometimes encountered in movie soundtracks originally mixed strictly for theatrical release. "Cinema" can be used in conjunction with Dolby Digital or Dolby Pro Logic.

- **Dolby Pro Logic:** Usable with both analog and PCM (i.e., non-Dolby digital-encoded) digital sources, this is the surround mode of choice for most videotapes, surround-encoded TV broadcasts, and many music CDs.

- **Symphony Hall:** This mode emulates the expansive space of a typical concert hall and is available for all two-channel sources, *analog* as well as *PCM digital.* The subwoofer channel is *not* active in this mode.

- **Stadium:** Again intended only for analog and PCM digital sources, this mode re-creates the soundfield typical of a large outdoor sporting event with long reverberation times and somewhat rolled-off high frequency response. Again, no subwoofer output.

- **Jazz Club:** An analog and PCM digital source enhancement, this mode simulates the intimacy of a very small acoustic space. Again, no subwoofer output.

- **5 channel stereo:** This makes full use of a home theater speaker array (except for the subwoofer) when playing two-channel only (analog or PCM digital) sources. It's ideal for parties or any other time when you want to get the broadest possible sound distribution from a non-surround encoded source.

- **2 channel stereo:** Obviously, the preferred mode for traditional two-channel listening. This mode is available for both analog and digital sources. In fact, the GTP-740 may even "auto switch" to 2 channel stereo mode — even for a Dolby Digital source when it contains only stereo or mono soundtrack information.

5.0 TROUBLE SHOOTING

> Your GTP-740's circuitry is built around advanced microprocessors. The GTP-740 may exhibit occasional anomalies arising from AC line surges, etc. If you experience unexpected behavior, or if the GTP-740 "locks up" and does not respond to control input, reset it by turning front power switch off. (Do not use the remote control's "power" button.) Wait 10 seconds and then turn the GTP-740 on. This will reset the internal control circuitry and solve almost all problems.

SYMPTOM	POSSIBLE REASON	POSSIBLE SOLUTION
Power LED does not light	AC Power Cord not plugged in AC Fuse failed	Plug in AC Power Cord Replace AC Fuse
Power LED glows but no sound	Power amp or source unit is not on Ball Switch (rear panel) is on	Make sure whole system is on Put Ball System switch in Off position
No sound from one channel	Connections in rear of amp are loose	Verify all connections on rear of amp
	Input or Output connector disconnected or loose	Verify both connections on that channel
	Speaker disconnected	Verify connection at speaker
Hum from all speakers (any volume)	Ground loop present (difference in ground voltages between components)	If cable TV is present, see Note 1 If cable TV is not present, see Note 2
	A major appliance, dimmer, halogen or fluorescent light may be creating interference	Make sure all appliances, dimmers and suspect lights are off
Hum from all speakers (increases or decreases with change in system volume)	Problem with source unit (CD, etc.)	Try different source to verify
	Problem with cable connecting that source to the Tuner/pre-amp	Try different cable to verify

Note 1: Cable TV systems can contribute to ground loop problems which, in turn, cause "hum." To determine whether your cable system is the contributing factor, disconnect the cable TV incoming signal line (the round, 75 ohm cable) before it first connects to your system. If the hum disappears, you should insert a "75 ohm Ground Loop Isolator" between the cable down lead and your system. Check with your ADCOM Dealer to obtain one. If the isolator does not fully cancel the hum, please read Note 2 to complete the troubleshooting procedure.

Note 2: Make sure that the power amplifier is at least 6" from the Tuner/Pre-amp. Usually, putting another component between these two units is sufficient to minimize the hum. If this does not work, turn the system off and disconnect all input cables from the amplifier. Turn the system on again. If the hum persists, your Dealer or Service Center should check the amplifier. If the hum disappears, try another set of RCA cables. (Remember to turn your entire system off whenever you change cables. You may also need to wait a few moments after turning the amplifier off until the power supply discharges to avoid nasty "thumps" when you disconnect or connect cables.) Connect one RCA cable at a time to see if the hum returns and, if it does, which specific cable is responsible. Replace that cable. If the hum persists with any (or all) cables, then your GTP-740 should be checked by your Dealer or Authorized Service Center.

6.0 CARE, MAINTENANCE, and SERVICE

CARING FOR YOUR GTP-740

Great care has been taken by ADCOM to ensure that your GTP-740 is as flawless in appearance as it is electronically. The front panel is a heavy gauge, high-grade aluminum extrusion carefully finished and anodized for durability. The chassis, top cover, and rear panels are heavy gauge steel that have been powder-coated and baked to ensure a lasting finish. If the front panel, top or sides become dusty or finger printed, they can be cleaned with a soft lint free cloth, slightly dampened with a very mild detergent solution or glass cleaner.

> **WARNING! Do not spray or pour liquids of any kind on the GTP-740.**

SERVICING

ADCOM has a Technical Service Department to answer questions pertinent to the installation and operation of your unit. In the event of difficulty, please contact us for prompt advice. Please have the following information readily at hand: the unit's model and serial numbers, and dealer from which it was bought. If your problem cannot be resolved through our combined efforts, we may refer you to an authorized repair agency, or authorize return of the unit to our factory. To aid us in directing you to a convenient service center, it would be helpful if you indicate which major city is accessible to your home.

Please address mail inquiries to:
ADCOM Service Corporation
10 Timber Lane
Marlboro, NJ 07746
USA

Phone, Fax or E-mail inquiries to:
Voice: 732-683-2356
Fax: 732-683-9790
Monday through Friday
9:00AM to 5:00PM EST
E-mail: service@adcom.com

UNDER NO CIRCUMSTANCES SHOULD YOUR UNIT BE SHIPPED TO OUR FACTORY WITHOUT PRIOR AUTHORIZATION, OR PACKED IN OTHER THAN ITS ORIGINAL CARTON AND FILLERS.

For Fax inquires, please include a return Fax or voice number for the reply. When calling or writing about your GTP-740, be sure to note and refer to its serial number as well as the date of purchase and the dealer from whom it was purchased. In the event the unit must be returned to our factory for service, you will be instructed on the proper procedure when you call or write for a Return Authorization. For warranty coverage, a copy of the original proof of purchase is required. If you have no original copy, please contact your dealer to obtain a duplicate copy.

If the original shipping carton and its fillers have been lost, discarded, or damaged, a duplicate carton may be obtained from our Parts Department for a nominal charge.

Always ship PREPAID VIA UNITED PARCEL SERVICE (UPS) OR OTHER APPROVED CARRIER. DO NOT SHIP VIA PARCEL POST, since the packaging was not designed to withstand rough Parcel Post handling. FREIGHT COLLECT SHIPMENTS CAN NOT BE ACCEPTED UNDER ANY CIRCUMSTANCES.

8.0 SPECIFICATIONS

Preamplifier Section

Output Level (Rated)..2.0V
Input Impedance 20kΩ
Output Impedance 100Ω
Frequency Response
    20Hz to 20kHz.. +0, -0.5dB
THD+N@ Rated Output
    20Hz to 20kHz...≤0.02%
IM Distortion
    CCIF @ 15kHz and 16kHZ...≤0.009%
Signal to Noise Ratio (Ref. to 2V)
    "A" Weighted ....≥95dB

FM Tuner Section

Usable Sensitivity (Mono) 3µV/15dBf
Quieting Sensitivity (50dB)
    Mono.. 3.4µV/22dBf
    Stereo 31µV/41dBf
Signal To Noise (65dBf, "A" weighted)
    Mono..78dB
    Stereo 70dB
THD+N (1kHz, 65dBf)
    Mono..0.05%
    Stereo. 0.09%
Capture Ratio. 2.0dB
Alternate Channel Selectivity (± 400kHz) ....>55dB
Separation (@1kHz) ....>50dB
Frequency Response (±0.5dB)..................................30Hz to 15kHz

AM Tuner Section

Sensitivity...300µV/m
Selectivity. ....≥40dB
Signal to Noise (5mV/m "A" Weighted) ....≥45dB

General

Power (available in 230V on special order)............ 120VAC/50-60Hz
Chassis Dimensions............ 4"(102mm) x 17"(432mm) x 11 ½"(292mm)
Maximum Dimension........ 4 ¼"(108mm) x 17"(432mm) x 12 ¾"(324mm)
Weight 16lbs. (7.3kg)
Weight, Packed. 19lbs. (8.7kg)

ADCOM

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Fax: (732) 683-9792
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